
GALLATIN COUNTY

(Gallatin County Water Service Area Map)

- Estimated 1999 population of 7,200--90% on public water
- Estimated 2020 population of 11,200--92% on public water
- 130 miles of water lines, with plans for 12 additional miles
- Estimated funding needs for public water 2000-2005--\$2,460,000
- Estimated funding needs for public water 2006-2020--\$0

Gallatin County had an estimated population of 7,198 (2,839 households) in 1999 with a projected population of 11,200 (4,700 households) in 2020. Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, about 1 in 5 households rely on private domestic wells and 4 in 5 the households rely on other sources. About 90 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

| COUNTY/System | | New Customers | | Rehab | Source | Treatment | Tanks/ Pumps | Total |
|------------------------|-----------------|---------------|----------------|------------|--------------|-----------|-----------------|--------------|
| | Miles | Number | Cost in \$1000 | in \$1000 | in \$1000 | in \$1000 | in \$1000 | in \$1000 |
| GALLATIN | | | | | | | | - |
| Gallatin Co. W/D | 9.7 | 75 | 300 | 600 | 1,500 | | | 2,400 |
| Warsaw | No new projects | | | | | | | - |
| Carroll Water Dist. #1 | 2.3 | 15 | 60 | | | | | 60 |
| Total | 12.0 | 90 | 360 | 600 | 1,500 | | | 2,460 |

PUBLIC WATER SYSTEMS

There are 3 public or semi-public water systems in Gallatin County: 2 community--1 municipal, City of Warsaw; 1 water district, Gallatin County Water District; and 1 non-community systems. Parts of the county are also served by Bullock Pen Water District, Carroll County Water District #1, and Tri-Village Water District.

WATER SERVICE AREAS

GALLATIN COUNTY

Kentucky

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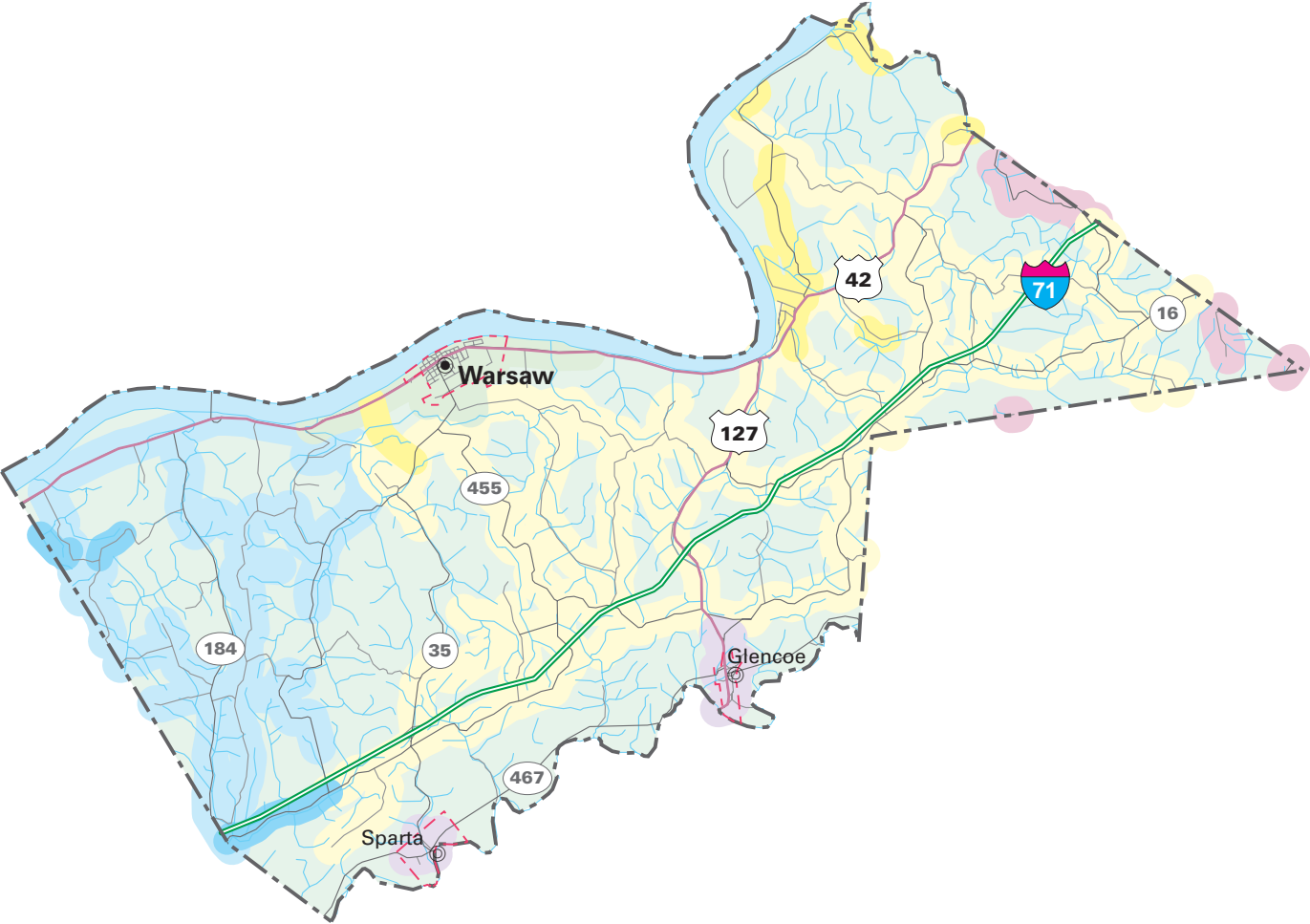
Bob Arnold, Chairman
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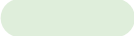
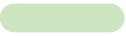


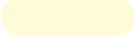
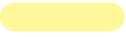
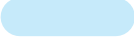



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| WATER SERVICE STATUS BY OWNER | | |
|---|---|----------------------------------|
| EXISTING SERVICE AREA | PROPOSED SERVICE AREA | |
|  |  | WARSAW WATER WORKS |
|  |  | TRI-VILLAGE WATER DISTRICT |
|  |  | GALLATIN COUNTY WATER DISTRICT |
|  |  | CARROLL COUNTY WATER DISTRICT #1 |
|  |  | BULLOCK PEN WATER DISTRICT |

WARSAW WATER WORKS

PWSID: 0390444
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source:
Purchase Source:
Well Source:
Sells Water to: GALLATIN COUNTY WATER DISTRICT
Treatment Plant Capacity (MGD): 0.72
Percent Daily Average Production: 64.00
Total Tank Storage Capacity (gallons): 500,000.00
Total Service Connections: 702.00
Number of Employees: 5.00
Treatment Operator Class:
Distribution Operator Class: 2BD
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

The City of Warsaw draws its water from two wells. The waterworks serves 700 residential customers and two commercial customers with a combined total annual usage of 139,450,000 gallons. In addition, Warsaw Waterworks wholesales water to the Gallatin County Water District. The system operates a Water Treatment Plant with a production capacity of 720,000 gallons per day. On an average day, the plant produces 460,000 gallons per day. The Waterworks has an elevated tank with a total storage capacity of 500,000 gallons, and has five full time employees.

100 percent of the residents of Warsaw are already being served by city water, as are a few households outside of the city limits. The mayor's office regularly receives requests for water service from residents outside the city limits, although the city does not currently plan to extend their system any farther.

GALLATIN COUNTY WATER DISTRICT

PWSID: 0390130
System Type: COMMUNITY
Owner Type: WATER DISTRICT
Surface Source:
Purchase Source: WARSAW WATER AND SEWER
Well Source:
Sells Water to: BULLOCK PEN WATER DISTRICT

| | |
|--|---------------|
| Treatment Plant Capacity (MGD):..... | 0.00 |
| Percent Daily Average Production:..... | 0.00 |
| Total Tank Storage Capacity (gallons): | 100,000.00 |
| Total Service Connections: | 1,274.00 |
| Number of Employees:..... | 5.00 |
| Treatment Operator Class: | 2D |
| Distribution Operator Class: | |
| Customer Rate for 1,000 Gallons:..... | 5.97 |
| O/M costs 1997:..... | 214,304.00 |
| O/M costs per Service Connection: | 171.17 |
| Net Revenue 1997: | 48,594.00 |
| Total Water Produced 1997 (gallons):..... | 0.00 |
| Water Sold 1997 (gallons):..... | 62,278,000.00 |
| Unaccounted-for Water 1997 (%): | 13.88 |

OTHER SYSTEMS

RIVER'S EDGE CAMPGROUND

River's Edge Campground is located in Gallatin County. The system serves a population of 132 and has 45 service connections. The private, transient, non-community system has treatment capacity of 20,000 gallons per day and the water source is wells. The charge for the first 5,000 gallons of water was \$20.60.

PRIVATE DOMESTIC SYSTEMS:

About 700 people in Gallatin County rely on private domestic water systems: 100 on wells and 600 on hauled water and other sources.

The alluvium along the Ohio River is the best source of ground-water in the county. Many properly constructed drilled wells will produce several hundred gallons per minute from the alluvium, with most wells able to produce enough for a domestic supply at depths of less than 100 feet. Water is hard or very hard but otherwise of good quality.

In the bottoms of Eagle Creek and in the lower sections of the larger creek valleys that drain into the Ohio River, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Some wells located in the smaller creek valleys will produce enough water for a domestic supply except during dry weather. In the upland areas of Gallatin County that encompasses approximately 60% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather. Ground water in these areas is hard or

very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
